

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael J. O'Phelan et al.

Title: CAPACITORS WITH RECESSED RIVETS ALLOW SMALLER IMPLANTABLE

**DEFIBRILLATORS** 

Docket No.: 279.087US3 Filed: February 26, 2002

Examiner:

Serial No.: 10/083,702

RECEIP

Due Date: N/A

Group Art Unit: 3762

Commissioner for Patents Washington, D.C. 20231

We are transmitting herewith the attached:

- X Communication Re: Incorrect Filing Receipt (1 pg.)
- $\underline{X}$  Copy of Filing Receipt (1 pg.)
- $\underline{X}$  Copy of first page of application (1 pg.)
- $\underline{X}$  A return postcard.

No Additional fee is required.

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on this day of March, 2002.

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IMPLANTABLE DEFIBRILLATORS

#### **COMMUNICATION RE: INCORRECT FILING RECEIPT**

Commissioner for Patents Washington, D.C. 20231

Applicants hereby request correction of the Filing Receipt with respect to the aboveidentified patent application. In the Filing Receipt received March 18, 2002, (copy enclosed), the domestic priority data is incorrect, it reads: This application is a Con of 09/607,382 06/30/2000 which is a Con of 09/465,095 12/16/1999 ABN; it should read: This application is a DIV of 09/607,382 06/30/2000 which is a Con of 09/465,095 12/16/1999 ABN. This is evidenced by the first page of the application (copy enclosed).

Applicants would appreciate the above-identified printing error be corrected and that a new "corrected" filing receipt be sent to Applicants' representatives at the address given below.

Respectfully submitted,

MICHAEL J. O'PHELAN ET AL.

By their Representatives,

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APR 0 8 2002

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WASHINGTON, D.C. 2023
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 APPLICATION NUMBER
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**CONFIRMATION NO. 2486** 

21186 SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402 FILING RECEIPT

\*OC000000007629134\*

Date Mailed: 03/13/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

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**Assignment For Published Patent Application** 

Cardiac Pacemakers, Inc.:

DV

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A CON OF 09/607,382 06/30/2000 WHICH IS A CON OF 09/465,095 12/16/1999 ABN

**Foreign Applications** 

If Required, Foreign Filing License Granted 03/13/2002

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Regu st: No

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Title

Schwegman, Lundberg Woessner & Kluin, P.A. Schwegman, Lundberg, Monspage & Weith, P.A.

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# CAPACITORS WITH RECESSED RIVETS ALLOW SMALLER IMPLANTABLE DEFIBRILLATORS

# Cross-Reference to Related Application(s)

This patent application is a division of U.S. Patent Application No. 09/607,382, filed on June 30, 2000, which is a continuation of U.S. Patent Application No. 09/465,095, filed on December 16, 1999, now abandoned, the specifications of which are incorporated herein by reference.

#### **Background of the Invention**

The present invention concerns capacitors, particularly those for use in medical devices, such as implantable defibrillators.

Every year more than half a million people in the United States suffer from heart attacks, more precisely cardiac arrests. Many of these cardiac arrests stem from the heart chaotically twitching, or fibrillating, and thus failing to rhythmically expand and contract as necessary to pump blood. Fibrillation can cause complete loss of cardiac function and death within minutes. To restore normal heart contraction and expansion, paramedics and other medical workers use a device, called a defibrillator, to electrically shock a fibrillating heart.

Since the early 1980s, thousands of patients prone to fibrillation episodes

have had miniature defibrillators implanted in their bodies, typically in the left
breast region above the heart. These implantable defibrillators detect onset of
fibrillation and automatically shock the heart, restoring normal heart function
without human intervention. The typical implantable defibrillator includes a set of
electrical leads, which extend from a sealed housing into the heart of a patient after

implantation. Within the housing are a battery for supplying power, heartmonitoring circuitry for detecting fibrillation, and a capacitor for storing and
delivering a burst of electric charge through the leads to the heart.